

Title (en)
LIQUID CRYSTAL PANEL ILLUMINATING APPARATUS

Title (de)
VORRICHTUNG ZUR BELEUCHTUNG EINER FLÜSSIGKRISTALLTAFEL

Title (fr)
APPAREIL D'ÉCLAIRAGE À PANNEAU À CRISTAUX LIQUIDES

Publication
EP 1900997 A4 20100602 (EN)

Application
EP 06780808 A 20060705

Priority
• JP 2006313432 W 20060705
• JP 2005199293 A 20050707
• JP 2006177062 A 20060627

Abstract (en)
[origin: EP1900997A1] Light which tries to enter a diffuser plate 3 at an angle which exceeds an angle at which a percentage of reflected light increases rapidly (that is, the incidence angle $\theta_i = 70$ degrees) is all reflected by a reflecting surface 21 and then enters the diffuser plate 3. Therefore, a pseudo light source is formed by light which was collected near a connection point between adjacent reflecting surfaces 21 out of the emitted light of the discharge lamps 1. So, the brightness between the adjacent discharge lamps 1 is increased, and it is possible to reduce unevenness in brightness. Furthermore, since the discharge lamp 1 is housed inside the reflecting surface 21 whose cross-sectional shape is a parabola, it is possible to reduce the distance between a reflecting plate 2 and the diffuser plate 3, as compared with the prior art, and to reduce the thickness dimension in the anteroposterior direction.

IPC 8 full level
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• [I] JP 2003031003 A 20030131 - SONY CORP
• See references of WO 2007007621A1

Cited by
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